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SQV INTERNATIONAL SERIES

The "SQV INTERNATIONAL SERIES" open frame switchers meet the toughest international standards for safety isolation and EMI/RFI specifications in the industry. The series consist of seven highly versatile multi-output models ranging from 100-400 watts in output power. In addition to their constant output power rating the SQV series switchers feature additional peak power capability to accommodate initial "turn-on/spin-up" loads experienced by various computer peripherals such as multiple disc drive applications and printers. The "SQV INTERNATIONAL SERIES" can be easily tailored to meet special customer requirements.

Standard features on most units include:

- International input capability (90-132/180-264 VAC 47-440Hz)
- Built-in line filtering meets the requirements of FCC Level B and VDE 0871 Level A
- 3750 VAC Safety Isolation (4mm spacing primary to GND, 8mm spacing primary to secondary)
- Shielded power transformers
- Built-in overload protection on all outputs
- Built-in overvoltage protection on main output
- Remote sense capability on main output
- Vacuum impregnated magnetics
- Fixed frequency pulse-width modulation
- Nominal 24-hour high temperature burn-in, AC cycled
- UL recognized (UL478, UL1950)
- TUV approved (IEC380, VDE0806, EN60950)
- CSA certified (selected models)
- 100% Computer final test

Options include:

- Universal input: 90-264 VAC Autoranging
- Remote inhibit: TTL compatible
- TTL-Hi or TTL-Lo power fail detect circuitry (customer specified)
- EMI/RFI cover (not available on 400 Watt model)
- Extended hold-up capability
- Fan/cover assembly

All units meet the following international specifications for safety isolation and EMI/RFI emissions:

UL478	UL1950	EN60950	IEC380
CSA22.2/	BS6301	VDE0806	VDE871 LEVEL A
No.234	FCC20780 LEVEL B		

"**SQV INTERNATIONAL SERIES**" switchers are guaranteed for one full year covering all parts and labor.

SQV SERIES — OUTPUT VOLTAGE TABLE — SQV SERIES

MODEL NO.	MAIN OUTPUT (V1) Vnom Imax	AUX #1 (V2) Vnom Imax	AUX #2 (V3) Vnom Imax	AUX #3 (V4) Vnom Imax	MAX OUTPUT POWER	OUTLINE DIMENSIONS
SQV100	5V @ 12A	12V @ 5A 15V @ 4A 24V @ 3A	* 5V @ 1.5A 12V @ 1.5A 15V @ 1.5A 24V @ 1.5A	* 5V @ 1.5A 12V @ 1.5A 15V @ 1.5A 24V @ 1.5A	100 WATTS (130W PEAK)	9.5" x 5.0" x 2.5"
SQV140	5V @ 20A	12V @ 5A/7A PK 15V @ 5A/7A PK 24V @ 5A/7A PK	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	** 5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	140 WATTS (170W PEAK)	10.5" x 5.0" x 2.5"
SQV150	5V @ 15A	12V @ 5A/7A PK 15V @ 5A/7A PK 24V @ 5A/7A PK	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	150 WATTS (175W PEAK)	9.5" x 5.0" x 2.5"
SQV175	5V @ 25A	12V @ 5A/8A PK 15V @ 5A/8A PK 24V @ 5A/8A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	175 WATTS (225W PEAK)	12.0" x 5.0" x 2.5"
SQV250	5V @ 35A	12V @ 5A/8A PK 15V @ 5A/8A PK 24V @ 5A/8A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	250 WATTS (300W PEAK)	13.5" x 5.0" x 2.5"
SQV350	5V @ 20A	12V @ 10A/16A PK 15V @ 10A/16A PK 24V @ 10A/16A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	350 WATTS (400W PEAK)	13.5" x 5.0" x 2.5"
SQV402	*** 5V @ 50A	12V @ 10A/16A PK 15V @ 10A/16A PK 24V @ 10A/16A PK	5V @ 5A/7A PK 12V @ 5A/7A PK 15V @ 5A/7A PK 24V @ 5A/7A PK	5V @ 5A/7A PK 12V @ 5A/7A PK 15V @ 5A/7A PK 24V @ 5A/7A PK	400 WATTS	15.0" x 5.0" x 2.5"

* OPTIONAL 3A OUTPUT AVAILABLE ** OPTIONAL 5A OUTPUT AVAILABLE *** OPTIONAL 60A OUTPUT AVAILABLE

SQV SERIES — ORDERING INFORMATION — SQV SERIES

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TRIPLE OUTPUT	T
QUAD OUTPUT	Q

OUTPUT POWER RATING

100 MODEL	100
140 MODEL	140
150 MODEL	150
175 MODEL	175
250 MODEL	250
350 MODEL	350
402 MODEL	402

OPTIONS

A	AUTORANGER
I	INHIBIT

MAIN OUTPUT IS 5V ON ALL MODELS

OUTPUT VOLTAGE	AUX #1 DASH NO.	AUX #2 DASH NO.	AUX #3 DASH NO.
5V	N/A	1	1
12V	2	2	2
15V	3	3	3
24V	4	4	4

OPTIONS

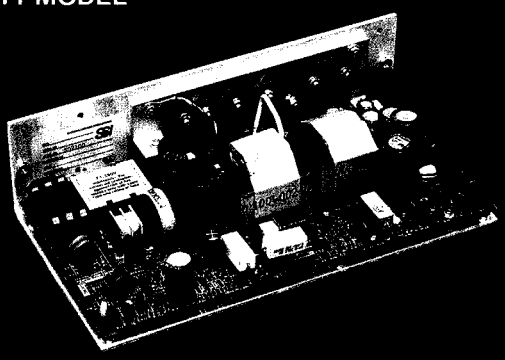
1	POWER FAIL/TTL HIGH
2	POWER FAIL/TTL LOW
3	POWER FAIL/TTL HIGH WITH COVER
4	POWER FAIL/TTL LOW WITH COVER
5	COVER ONLY

FOR TRIPLE OUTPUT MODELS SUBSTITUTE A ZERO (0) INDICATING NO OUTPUT IN THE APPROPRIATE SPACE.

COVER NOT AVAILABLE ON 400 WATT MODEL

CONTACT FACTORY FOR INFORMATION ON SPECIALLY MODIFIED UNITS

SQV 150
WATT MODEL



SPECIFICATIONS

Input:	90-132VAC/180-264VAC, 47-440Hz Inrush: 15A @ 115V for ½ cycle 30A @ 230V for ½ cycle } Cold Start
Output:	See output voltage table
Line Regulation:	0.2%, all outputs
Load Regulation:	1%, main output 5%, aux no. 1 0.5%, aux no.'s 2 and 3
Adjustment Range:	±5%, main output
Centering:	±3% aux no. 1
Cross Regulation:	3% aux no. 1 (change main output from 50% to 100% of max rated load)
Ripple and Noise:	50mV P-P max, main output (10MHz bandwidth) 1% of nominal, aux no.1 (10MHz bandwidth) 100mV P-P max, aux no.'s 2 and 3 (10MHz bandwidth)
Efficiency:	75% typical
Operating Temperature:	0-50°C at full rated load. Derate to 50% of full rated load at 70°C. Unit requires 25CFM of forced air cooling at full rated load.
Temperature Coefficient:	0.02% per °C
Overvoltage Protection:	OVP on main output is set between 6-6.5 V. This protection is reset by recycling input power.
Overload Protection:	All outputs are protected against overload and short circuit conditions. Prolonged short circuit condition on main output or aux. no.1 results in system shut-down. System is reset by recycling input power. Aux output no.'s 2 and 3 are foldback current limited. Recovery is automatic when load is reduced.
Holdover Storage:	16mSEC minimum at full rated load, nominal input voltage
Transient Response:	Recovery to within 1% of nominal output voltage within 500uSEC for a 25% load step
Overshoot:	No voltage spikes on turn-on, turn-off, or power fail
Remote Sense:	Remote sense on the main output compensates for up to 0.5V in the load cable
Power Fail: (Optional)	A TTL signal (high or low, customer specified) appears within 5mSEC to warn of input voltage drop below minimum operating level
Universal Input: (Optional)	90-264VAC autoranging See page 23
Remote Inhibit: (Optional)	TTL low or switch closure See page 23

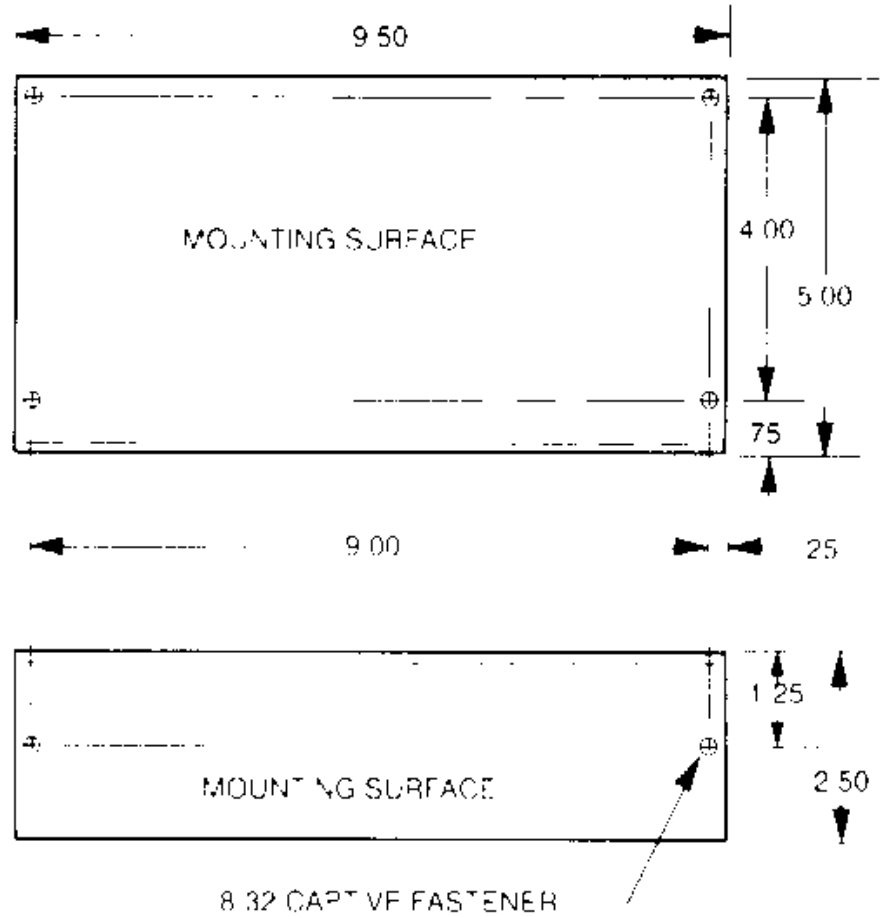
OPERATIONAL SPECIFICATIONS

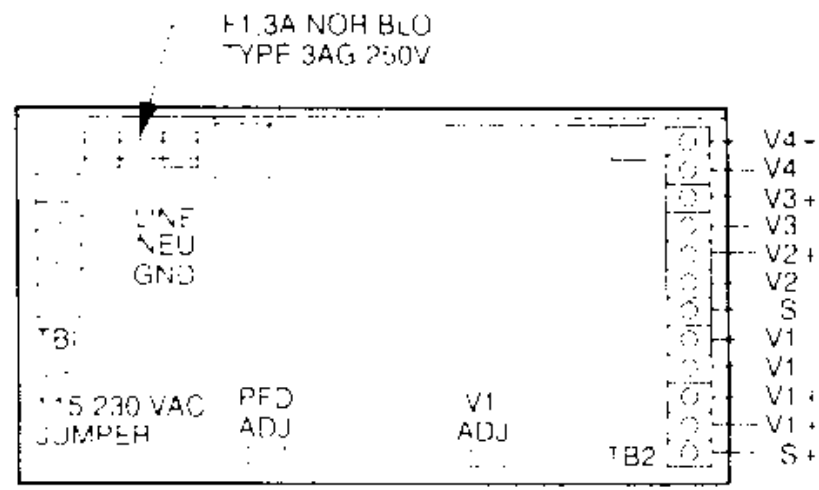
Load Requirements:	Main output requires 10% minimum load, OR aux no.1 requires 10% minimum load to enable aux no.'s 2 and 3 to operate within specification.
DC Returns:	Main output and aux no. 1 share common return. Aux output no.'s 2 and 3 are fully independent and floating.
Output Power:	Total continuous power 150 watts max Peak output power 175 watts max
Safety Isolation:	Primary to secondary. 3750VAC (8mm spacing) Unit meets or exceeds the following specifications for safety: UL478 EN60950 UL1950 IEC380 CSA22.2/ BS6301 No. 234 VDE0806
EMI/RFI:	Input filtering: unit meets requirements of FCC 20780 Class B and VDE0871 Class A.

FOR ORDERING INFORMATION
SEE PAGE 9

FOR MECHANICAL OUTLINE
SEE PAGE 8

SQV 100/150





INPUT & OUTPUT BARRIER STRIPS ARE EQUIPPED WITH
6-32 SCREWS AND ACCEPT UP TO A .25 WIDE LUG